

8/26

Notice of Allowability	Application No.	Applicant(s)	
	10/693,462	KRYMSKI, ALEXANDER	
	Examiner	Art Unit	
	Linh V. Nguyen	2819	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/8/06.
2. ☒ The allowed claim(s) is/are 1 - 34, 36 - 39.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|--|---|
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____ 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | <ol style="list-style-type: none"> 5. <input type="checkbox"/> Notice of Informal Patent Application 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date <u>9/26/06</u> 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance 9. <input type="checkbox"/> Other _____ |
|--|---|

DETAILED ACTION

1. This office action is in response to communication filed on 8/8/06. Claim 44 has been amended. Claims 1 – 34, and 36 – 39 are pending on this application.

EXAMINER'S AMENDMENT

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with attorney Rachael Lea Leventhal on 9/26/06.

The application has been amended as follows:

Cancel claim 44.

Allowable Subject Matter

3. Claims 1 – 34, 36 – 39 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

With respect to claims 1, 11, and 21, in addition to other elements in each respective claim, the prior art fails to teach or suggest a control circuit for determining the digital word corresponding to the input signal by repeatedly: comparing the magnitude of the input signal with the magnitude of a most recently generated reference

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voltage of said sequence, incrementing said counter, and causing said ramp generator to generate a new one of said sequence until the magnitude of the most recently generated reference voltage of said sequence exceeds the magnitude of said input signal.

With respect to claims 31 and 36, in addition to other elements in each respective claim, the prior art does not teach a method for A/D conversion comprising: mapping the magnitude to digital word with first and second transfer functions only, mapping exclusively with the first transfer function if the magnitude less than a predetermined threshold; and mapping exclusively with the second transfer function if the magnitude is at least equal to the predetermined threshold.

With respect to claims 33 and 38, in addition to other elements in each respective claim, the prior arts fail to teach or suggest converter having first and second transfer function wherein said second transfer function maps a set of non-sequential and increasing magnitudes each at least equal to said predetermined threshold to corresponding reference signals in a linear manner.

Contact Information

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh Van Nguyen whose telephone number is (571) 272-1810. The examiner can normally be reached from 8:30 – 5:00 Monday-Friday. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Rexford Barnie can be reached at (571) 272-7492. The fax phone numbers for the organization where this application or proceeding is assigned are

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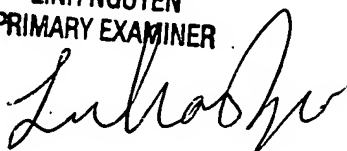
(571-273-8300) for regular communications and (571-273-8300) for After Final communications.

9/26/06

Linh Van Nguyen

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LINH NGUYEN
PRIMARY EXAMINER

A handwritten signature in black ink, appearing to read 'Linh Nguyen', written over the printed name and title.